HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

F. GENERIC BRANDS

"1776" 85

Distributed by Park Avenue Tobacco Co. - manufactured by U.S. Tobacco Co. - sold only on military installations.

"1776" MENTHOL 85

Distributed by Park Avenue Tobacco Co. - manufactured by U.S. Tobacco Co. - sold only on military installations.

ASTOR 85 (BOX)

Distributed by Park Avenue Tobacco - manufactured by U.S. Tobacco Co. 1/86

ASTOR 100 (BOX)

Distributed by Park Avenue Tobacco - manufactured by U.S. Tobacco Co. 1/86

ASTOR 100 MENTHOL (BOX)

Distributed by Park Avenue Tobacco - manufactured by U.S. Tobacco Co. 1/86

BASICS 85

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BASICS MENTHOL 85

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BASICS 100

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BEST VALUE FULL FLAVOR 85

Manufactured by R. J. Reynolds - sold in K-Mart stores. 1/89

BEST VALUE FULL FLAVOR 100

Manufactured by R. J. Reynolds - sold in K-Mart Stores. 1/89

BEST VALUE FILTER LIGHTS 85

Manufactured by R. J. Reynolds - sold in K-Mart Stores. 1/89

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

BEST VALUE FILTER LIGHTS MENTHOL 85	
Manufactured by R. J. Reynolds - sold in K-Mart Stores	1/89
BEST VALUE FILTER LIGHTS 100	
Manufactured by R. J. Reynolds - sold in K-Mart Stores.	1/89
BEST VALUE FILTER LIGHTS MENTHOL 100	
Manufactured by R. J. Reynolds - sold in K-Mart Stores.	1/89
BEST VALUE ULTRA LIGHTS 100	
Manufactured by R. J. Reynolds - sold in K-Mart Stores.	1/89
BRANDED ULTRA LIGHTS 85	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED ULTRA LIGHTS 100	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FILTER LIGHTS 85	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FILTER LIGHTS MENTHOL 85	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FILTER LIGHTS 100	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FILTER LIGHTS MENTHOL 100	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FULL FLAVOR 85	
Manufactured and sold by Brown & Williamson.	11/84
BRANDED FULL FLAVOR 100	
Manufactured and sold by Brown & Williamson.	11/84
BRONSON LIGHTS 100	
Distributed by National Product Group - manufactured by Liggett Group.	3/84

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

...AY CONFIDENTIAL INFORMATION
...duced by Philip Morris...subject to a
...ourt order in Philip Morris v. ABC. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.

BRONSON ULTRA LIGHT 100	
Distributed by National Product Group - manufactured by Liggett Group.	3/84
CLASS "A" DELUXE LIGHTS 85	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS MENTHOL 85	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS 100	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS MENTHOL 100	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	11/86
CLASS "A" DELUXE ULTRA LIGHTS 100	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	11/86
COINS 85	
Distributed by NVBG, Inc. - manufactured by Brown & Williamson - sold only in vending machines.	3/85
COINS LIGHTS 85	
Distributed by NVBG, Inc. - manufactured by Brown & Williamson - sold only in vending machines.	3/85
COST CUTTER LIGHTS 85	
Distributed by The Kroger Company - manufactured by Liggett Group.	4/81
COST CUTTER LIGHTS 100	
Distributed by The Kroger Company - manufactured by Liggett Group.	6/82
COST CUTTER LIGHTS MENTHOL 85	
Distributed by The Kroger Company - manufactured by Liggett Group.	6/82
DELTA 85	
Manufactured and distributed by Park Avenue Tobacco Co.	5/86

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...subject to a Court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

DELTA 100 (BOX)	
Manufactured and distributed by Park Avenue Tobacco Co.	5/86
DELTA 100 MENTHOL (BOX)	
Manufactured and distributed by Park Avenue Tobacco Co.	5/86
ECON MENTHOL 85	
Distributed by Richfood, Inc. - manufactured by U.S. Tobacco Company.	10/81
EPIC DELUXE LIGHTS 85	
Distributed by Southland Corp. - manufactured by Liggett Group.	11/83
EPIC DELUXE LIGHTS MENTHOL 85	
Distributed by Southland Corp. - manufactured by Liggett Group.	11/83
FALCON LIGHTS 85	
Manufactured and sold by Brown & Williamson.	7/86
FALCON LIGHTS MENTHOL 85	
Manufactured and sold by Brown & Williamson.	7/86
FALCON LIGHTS 100	
Manufactured and sold by Brown & Williamson.	7/86
FALCON LIGHTS MENTHOL 100	
Manufactured and sold by Brown & Williamson.	7/86
FILTER ULTRA LIGHTS 85	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	3/83
FILTER ULTRA LIGHTS 100	
Distributed by Gary Tobacco Co. - manufactured by Liggett Group.	3/83
FLAVOR LIGHTS 85	
Distributed by Gary Tobacco Company - manufactured by Liggett Group.	7/81

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

FULL FLAVOR QUALITY 85

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 9/84

FULL FLAVOR QUALITY 100

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 9/84

GPC 85 (NF)

Distributed by Generic Products Corporation - manufacturing by Liggett Group. 7/85

GPC LIGHTS 85

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC LIGHTS MENTHOL 85

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC LIGHTS 100

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC FULL FLAVOR 85

Distributed by Generic Products Corporation - manufactured by Liggett Grcup. 7/84

GPC FULL FLAVOR 100

Distributed by Generic Products Corporation - manufactured by Liggett Group. 7/84

GENERIC 70 MM (NF)

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 1/84

GENERIC 85 MM (NF)

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 1/84

KING SIZE LIGHTS MENTHOL 85

Distributor unknown - manufactured by U.S. Tobacco Co. 6/81

2031420393

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...Subject to a court order in Philip Morris v ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

LIGHTS 85 (WHITE PACK)	
Distributed by Compass Foods - manufactured by Liggett Group.	4/81
LIGHTS 85 (YELLOW PACK)	
Distributed by Sun Fresh, Inc. - manufactured by Liggett Group.	6/81
MAJOR FULL FLAVOR 80 BOX	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR ULTRA LIGHTS 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR ULTRA LIGHTS 100	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS MENTHOL 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS 100	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS MENTHOL 100	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR FULL FLAVOR 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR FULL FLAVOR 100	
Manufactured and sold by Brown & Williamson.	7/85
PRICEBREAKER LIGHTS 85	
Distributed by Economy Wholesale - manufactured by Liggett Group.	7/82

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

PRICEBREAKER LIGHTS MENTHOL 85

Distributed by Economy Wholesale - manufactured by Liggett Group. 7/82

PRICEBREAKER LIGHTS 100

Distributed by Economy Wholesale - manufactured by Liggett Group. 7/82

QUALITY ULTRA LIGHTS 85

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 3/83

QUALITY ULTRA LIGHTS 100

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 3/83

SCOTCH BUY LIGHTS 85

Distributed by Safeway Stores - manufactured by Liggett Group. 5/81

WEST 85 (BOX)

Distributed by Park Avenue Tobacco Co. - manufactured by U.S. Tobacco Co. 5/85

WEST 85 (SOFT PACK)

Distributed by Park Avenue Tobacco Co. - manufactured in West Germany. 5/85

WEST 100 (BOX)

Distributed by Park Avenue Tobacco Co. - manufactured in West Germany. 5/85

WEST MENTHOL 100 (BOX)

Distributed by Park Avenue Tobacco Co. - manufactured in West Germany. 5/85

WORTH LIGHTS 85

Distributed by the Pantry, Inc. - manufactured by Liggett Group. 9/84

WORTH LIGHTS MENTHOL 85

Distributed by the Pantry Inc. - manufactured by Liggett Group. 9/84

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

YOURS FILTER LIGHTS 85

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 5/83

YOURS FILTER LIGHTS MENTHOL 85

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 5/83

YOURS FILTER LIGHTS 100

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 5/83

YOURS FILTER LIGHTS MENTHOL 100

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 5/83

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...subject to court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

DESCRIPTION OF REPORTED DATA

All values reported are averages of four monthly samplings, except for reconstituted tobacco, expanded tobacco, and expanded stem [illegible] which are determined on a semi-annual basis.

Brands are tested each month for FTC tar and nicotine deliveries and for total alkaloids and total reducing sugars. The mentholated brands are tested each month for menthol in smoke, filler, and filter. Therefore, the average for these characteristics covers an interval of four months. Other characteristics are determined once every three (3) months; therefore, the average represents a period of one year. When a characteristic is not measured, the value reported is from the preceding month.

Generally, the value reported is an average of four samplings. When a change has been detected and confirmed, the reported values may consist of one value or an average of two or three values, and are shown in parentheses.

The minor brands are examined twice a year for FTC tar, nicotine and CO deliveries as well as physical characteristics.

Data appearing on the graphs represent the average of the four monthly samplings.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris pursuant to a court order in Philip Morris v. Lartigue. This document and its contents shall not be used for any purpose other than as provided in the court order, nor shown or distributed except as provided therein.

I. SAMPLING .

The freshest cigarettes are obtained from one jobber in major cities (Richmond, Virginia; Washington, D.C.; New York, New York; Louisville, Kentucky; Charlotte, North Carolina; Atlanta, Georgia; St. Louis, Missouri; New Orleans, Louisiana; Dallas, Texas; and Chicago, Illinois). The most current date of manufacture is used for these analyses. The total number of cartons used never exceeds ten.

Eight packs from each carton are opened, and the cigarettes are equilibrated to standard conditions; i.e., 75°F and 60% R.H. for at least 48 hours. After the cigarettes have been equilibrated random samples are selected for analyses. Samples are selected so that carton to carton differences can be determined; thus, each carton within a given brand is considered an individual sample. Only average values obtained from the total sample are incorporated in the C.I. Report; however, the individual carton values are important for noting possible changes within a given brand.

Cigarettes for menthol analyses are taken immediately after the packs are opened and placed in sealed containers; thus, the menthol content of the filler, filter, and smoke are determined from unequilibrated cigarettes.

II. CIGARETTE PERFORMANCE

A. Smoke Characteristics

1. FTC Tar

FTC Tar is defined as TPM minus water minus nicotine smoked to a 23 mm butt or tipping paper plus 3 mm (whichever is the longer).

2. TPM

Total particulate matter (TPM), smoke particles larger than 0.3 micron, is determined by smoking cigarettes on a twenty-port constant volume smoking machine which provides a 35 milliliter (ml) puff of two seconds duration once each minute. The TPM, including nicotine, is collected on Gelman disposable filter pads which are weighed before and after smoking five cigarettes (one port) to a 23 millimeter butt length or tipping paper plus 3 mm (whichever is the longer). A total of 12 ports (60 cigarettes) are smoked per sample each month.

3. Nicotine and Water in TPM

Nicotine and water in TPM are determined simultaneously by gas chromatography of an isopropyl alcohol extract. Samples are compared to standards of known nicotine and water concentration. Carvone and ethanol are used as internal standards in the extracting solution for nicotine and water, respectively, to eliminate instrumental variation. For nicotine and water determination in TPM, twelve ports are smoked for each brand as

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a
court order in Philip Morris v. Lore. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.

described in Section II.A.2. Two TPM pads are combined and extracted in the isopropyl alcohol extracting solution. The extracts are then analyzed on a gas chromatograph. Sample injection, peak integration, and sample calculations are automated. Data are reported on a milligram per cigarette basis.

4. Menthol

Menthol is determined in smoke (TPM pads), filler and filter plugs by gas chromatography of an ethanol extract. The samples are compared to standards of known concentration. Carvone is used as an internal standard in the extracting solution to eliminate instrument variation. Sample injection, peak integration, and sample calculations are automated. For menthol in smoke determinations, eight ports (five cigarettes per port) are smoked for each brand. The cigarettes are smoked to a 23 mm butt length or tipping paper plus 3 mm (whichever is longer). Two TPM pads are combined and extracted in the 95% ethanol extracting solution. The sample for the filler and filter analyses represents a composite sample of twenty cigarettes randomly selected from the same packs used for menthol in smoke analysis. The composite sample is analyzed in duplicate. Data are reported as milligrams per cigarette.

5. Filter Efficiency

Eight ports of TPM are smoked by the direct filter weight method to determine filter efficiency. This involves cutting off the filters, weighing them, and reattaching them to monitor tobacco rods using a glass sleeve. This procedure permits the same amount of smoke to be presented to the filter. Reweighing the filters after smoking yields the weight of filtered material. Percent filtration efficiency can then be calculated. The filter efficiency values for carbon filter cigarettes are slightly higher than for CA-type filter cigarettes because of the added weight contributed by the carbon pick-up of gas phase components.

6. Filler Rod TPM

Filler rod TPM is the TPM generated when 55 mm of a tobacco rod is smoked to a 10 mm tobacco butt. In this test, all cigarettes are cut to a 55 mm tobacco rod length regardless of the initial cigarette length. In the case of filter cigarettes, the filter plug is cut to 15 mm and the filter material is removed. If the cigarettes are ventilated, the ventilation holes are covered prior to cutting the filter. In the case of nonfilter cigarettes, a 15 mm plastic tube is taped to the cigarette rod to provide equal holding characteristics for smoking. A total of 8 ports (32 cigarettes) are smoked per sample.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

7. Puff Count

Puff count is determined by counting the number of puffs required to reach a designated butt length during the TPM analysis.

8. Carbon Monoxide (CO) Deliveries in Cigarette Smoke

Five cigarettes per port are smoked on a 20-port smoking machine using standard smoking specifications. The vapor phase is pumped into a non-dispersive infrared spectrophotometer for CO detection. A total of four ports (20 cigarettes) are smoked per sample. Gas phase is defined as the smoke which passes through a standard Cambridge filter pad. Samples are compared to a single standard of known concentration introduced to the detector by means of a gas sampling bag. The results are obtained on a per cigarette basis and a per port basis.

9. Gas Phase Smoke Index

The smoke index (S.I.) represents the efficiency of a carbon filter for the removal of the cyanides and total aldehydes component from the gas phase. The S.I. is determined by a plug-in and plug-out smoking procedure. Smoke index is the combined average percent reduction of cyanides and total aldehydes. The higher the S.I. value (maximum 100), the greater the filter efficiency for cyanide and total aldehydes removal.

B. Resistance-To-Draw (RTD)

Resistance-to-draw [expressed as mm of water (differential pressure)] is defined as the pressure drop across a cigarette with an air velocity of 1050 cc/min. This is determined by inserting the end of a cigarette into a specially designed tube through which air can be drawn. The pressure difference between the open and enclosed end of the cigarette is measured. The apparatus is calibrated by means of standardized capillary tubes of known pressure drop. Cigarettes are randomly selected by carton and measured for a total of twenty-five determinations per brand.

C. Static Burn Rate

Static burn time is the number of minutes required for 40 mm of the tobacco rod to burn in a device which measures the time automatically. Eight cigarettes per brand are randomly selected for this test.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

III. CIGARETTE CONSTRUCTION

A. Paper

1. CORESTA

Permeability (porosity) of cigarette paper is defined as the ratio of the air flow (volume per unit of time) per unit of surface area of the test paper times the difference in pressure across the test paper in kilopascals. Cigarettes for this analysis are randomly selected by carton and measured for a total of thirty cigarettes per brand.

2. Paper Component

The substances added to paper to control the rate of burning are determined quantitatively on an extract of the paper. Phosphate is determined by the colorimetric molybdovanadate reaction. Citrate is determined by the gas chromatographic analysis of the methyl ester formed by reacting the paper extract with a solution of sulfuric acid in absolute methanol.

B. Circumference

Circumference is measured with a Techmet LaserMike® Circumference Micrometer. The cigarettes to be tested are placed in the hopper which automatically positions the cigarette in the path of a low power laser beam. The circumference measurement is a function of that portion of the laser beam which is blocked out. During one circumference measurement, 100 readings are taken per revolution. An internal microprocessor computes the circumference and the results are reported in mm. Cigarettes are randomly selected by carton and measured for a total of thirty determinations per brand.

C. Weight of Tobacco

Cigarettes are randomly selected by carton for a total of twenty cigarettes. The tobacco portion only is weighed. The weight of tobacco per cigarette is calculated and corrected to a 12.5% moisture basis.

D. Cigarette and Tobacco Rod Length

Cigarette length is determined by measuring the total length of the cigarette rod paper and tipping paper on a specially designed instrument. Lengths are measured accurately to the nearest 0.1 mm. A total of ten cigarette papers are measured per brand. The rod length is the difference between the cigarette length and filter length.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

E. Tipping Paper Length

Cigarettes are randomly selected by carton and the tipping paper length is measured with a millimeter scale divided into 0.5 millimeter increments.

F. Filter Plug

1. RTD, Ventilation, Length, and Weight

The same cigarettes which are used for total RTD are used for these measurements. To measure ventilation, a sliding glass sleeve connected to a digital ventilation meter is moved into position over the ventilation holes in the filter. The percentage of air that is drawn in through the holes diluting the mainstream of air passing through the cigarette rod is read directly off the meter. The filters are then separated from the rods, and individual measurements of filter RTD are made. The filter RTD is an encapsulated measurement eliminating the effects of ventilation.

The length of each filter is measured to the nearest 0.1 mm using a linear output transducer connected to a digital meter. The filters from five cigarettes per carton are measured to yield an average filter length. The filter material, without plug wrap, is then weighed to the nearest 0.001 g.

2. Fiber Denier

Cigarettes are randomly selected by carton representing each place of manufacture. The plugs are opened, and a sample of fiber is removed from each. The samples are combined, rolled into a bundle, embedded in paraffin, sectioned on a microtome, and mounted on a microscope slide. Using a microscope projection system of 1000X magnification, a tracing is made of ten fibers selected at random from the section. The areas of ten fibers are measured, averaged, and the denier per filament is calculated. The cross section is referred to by shape; that is, regular shape (R), I-shape (I), and Y-shape (Y). Each brand is analyzed annually.

G. Carbon

Carbon is determined on filter plugs by dissolving the supporting filter materials in an appropriate solvent and drying the remaining carbon for one hour at 250°C. Five plugs are used per determination and the values reported are the average of four determinations in mg carbon/plug.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...subject to a court order in Philip Morris, et al. v. ... This document and its contents shall not be ... distributed except as ... court order.

IV. FILLER COMPOSITION

A. Total Alkaloids and Total Reducing Sugars

Reducing sugars and nicotine alkaloids are extracted from cigarette filler with an aqueous acetic acid solution and determined colorimetrically using an autoanalyzer. Alkaloids react with cyanogen chloride in the presence of an aromatic amine to produce a color proportional to the alkaloid concentration. Reducing sugars are determined by their reaction with p-hydroxybenzoic acid hydrazide (PAHBAH) in a basic medium to form a color. Samples are compared with nicotine and 1:1 glucose-fructose standards. All data are reported on a dry weight basis.

B. Reconstituted Tobacco and Expanded Stems

The amount of reconstituted tobacco and expanded stems (ES) is determined by physically separating these components from the filler using a microscope for magnification and weighing the fractions. The brand sample consists of a group of nine cigarettes randomly selected by carton. The center third of the rod of each cigarette is removed and the sections are combined into three groups of three sections each. The filler of each group is removed, and the above separation is made.

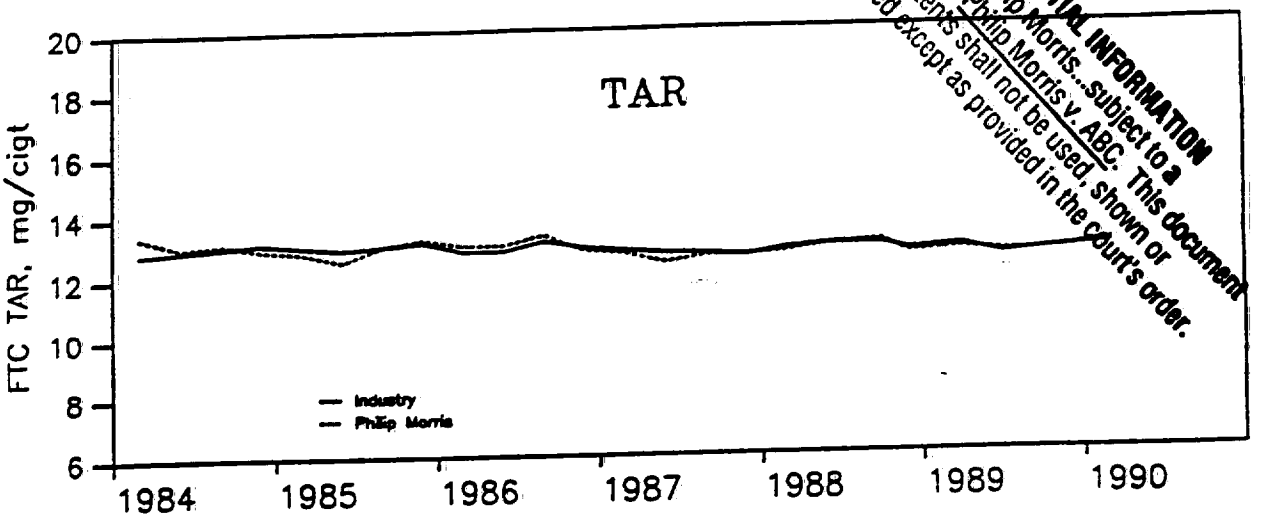
C. Expanded Tobacco

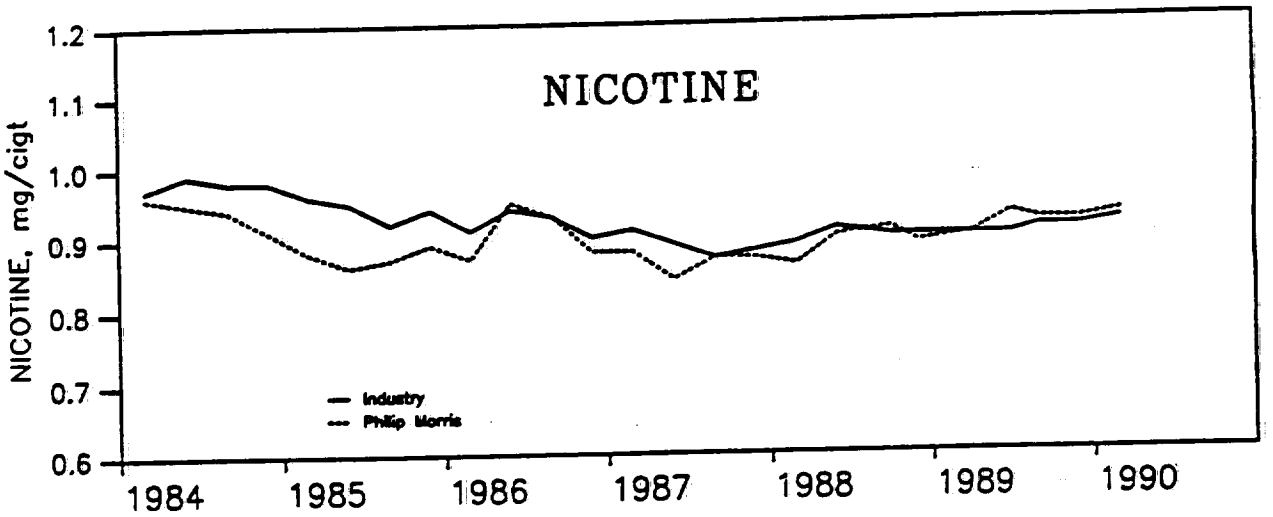
The filler from 18 randomly selected cigarettes is placed in acetone. The expanded tobacco and the non-expanded material is separated, air-dried, and weighed. The expanded tobacco percentage is calculated. This method was adopted as the standard procedure for expanded tobacco in June, 1980.

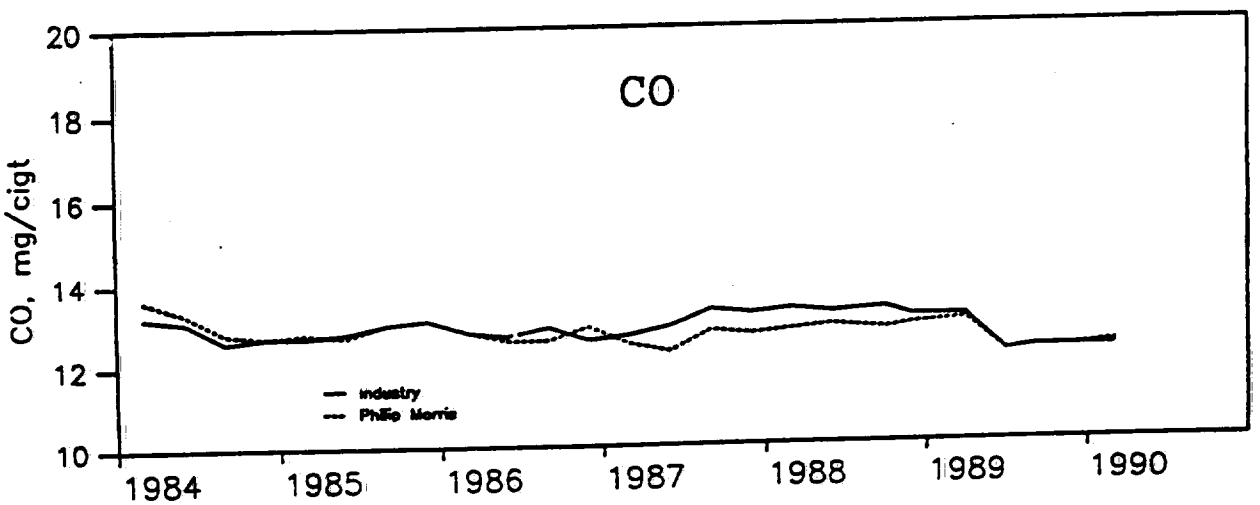
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

SALES WEIGHTED AVERAGE

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...subject to a
court order in Philip Morris v. ABC. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.





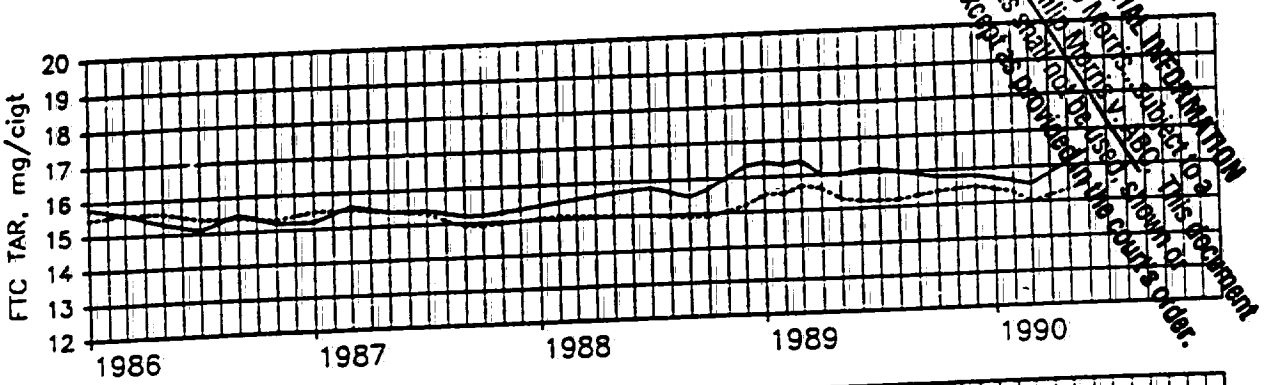


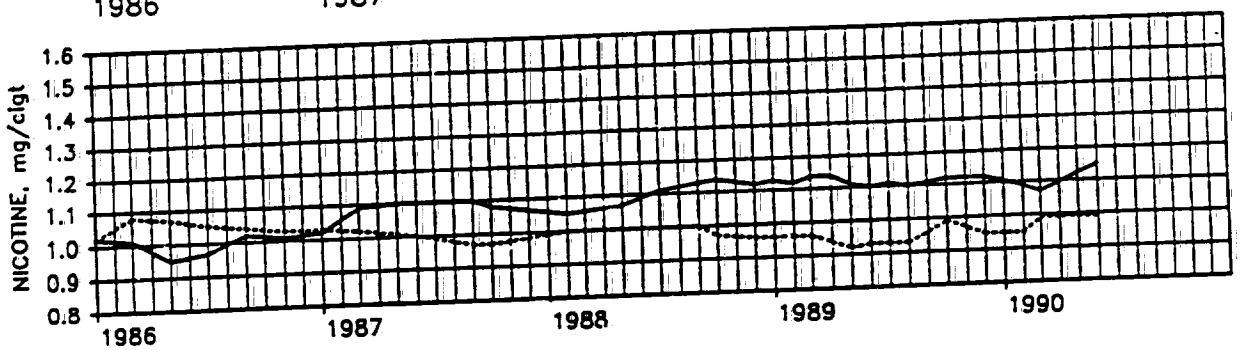
2031420404

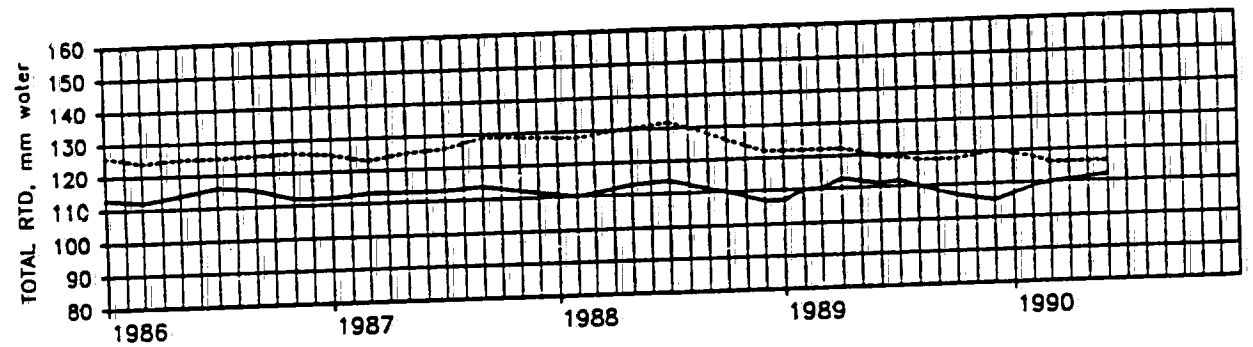
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

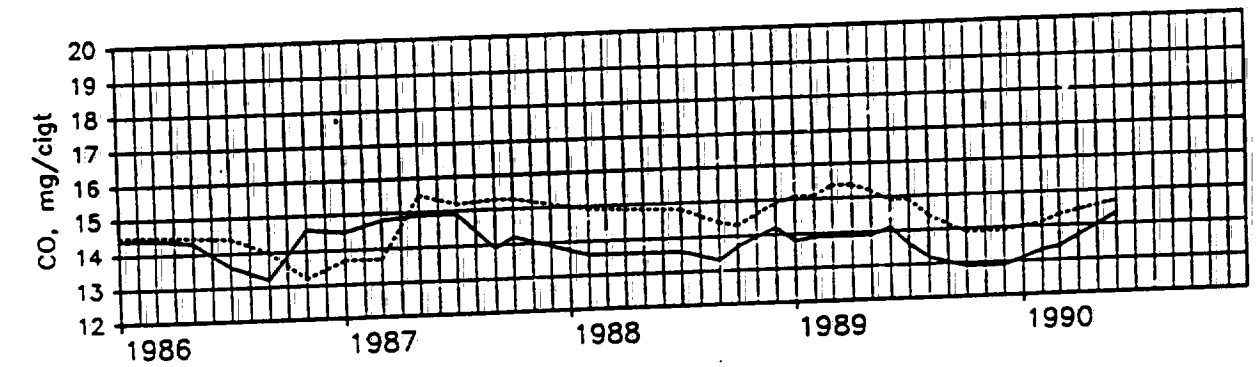
Long Filter: MARLBORO, WINSTON

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to
court order in Philip Morris v. ABC. This document
and its contents shall not be used, shown or
distributed except as provided in the court order.







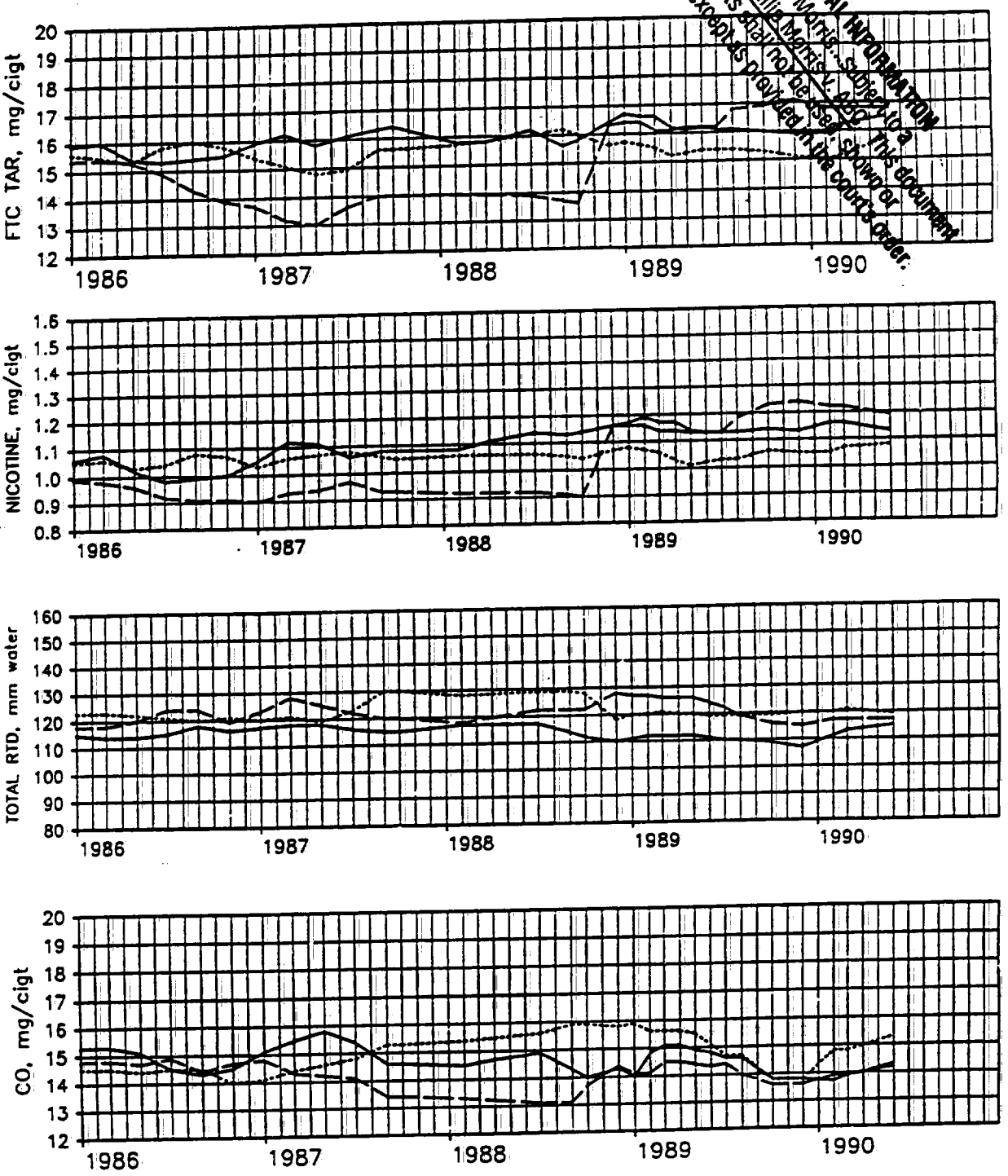


2031420405

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

King Filter: MARLBORO, WINSTON, VICEROY

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a
court order in Philip Morris v. Boe. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.

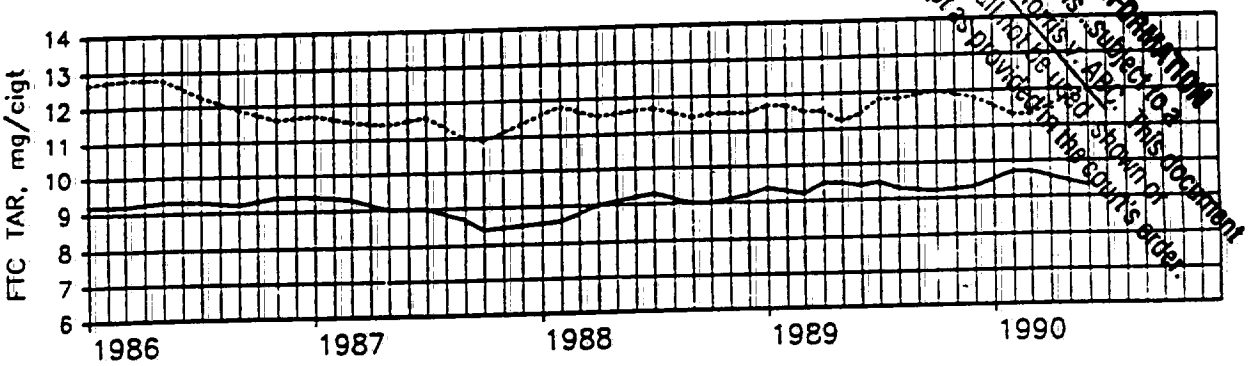


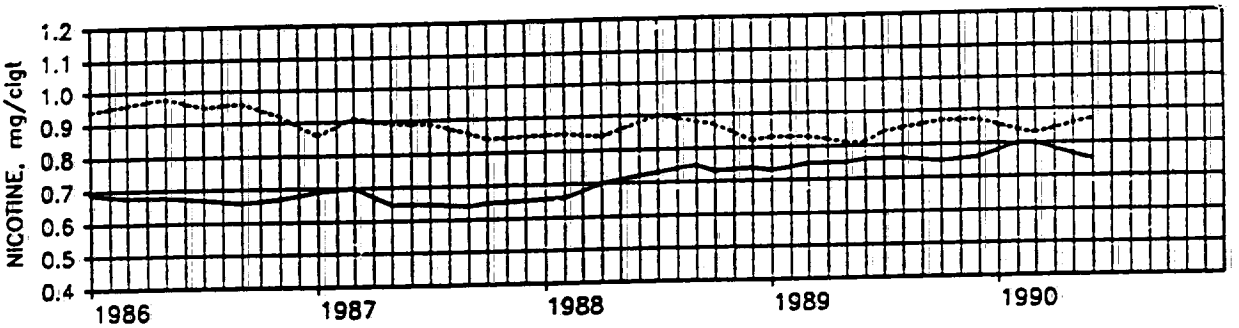
2031420406

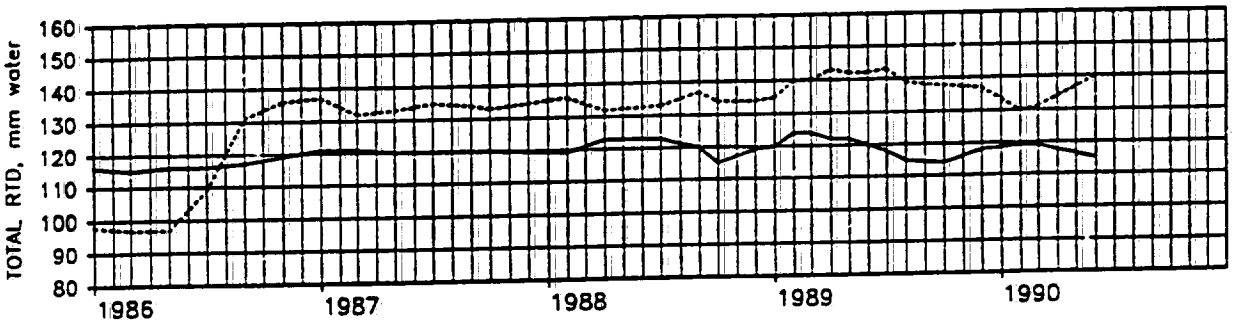
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

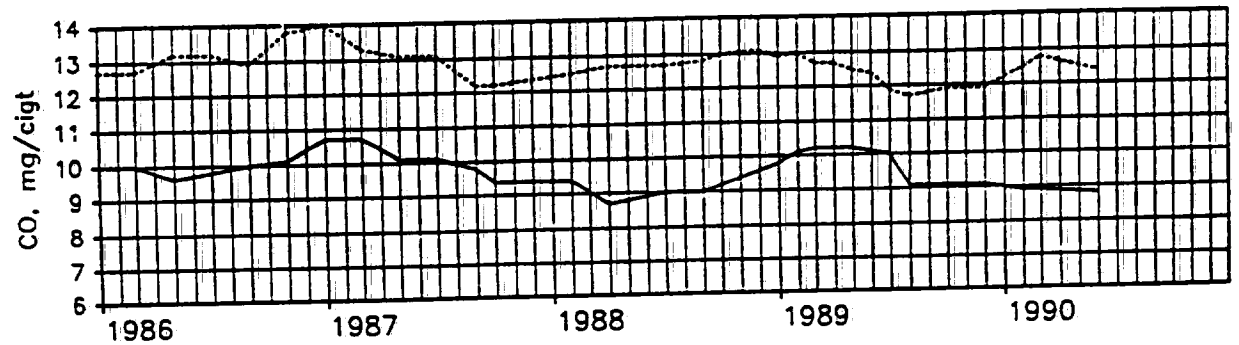
King Filter: PARLIAMENT LTS, KENT

HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris subject to a court order in Philip Morris v. ADL. This document and its contents shall not be used, shown or distributed except as provided in the court's order.







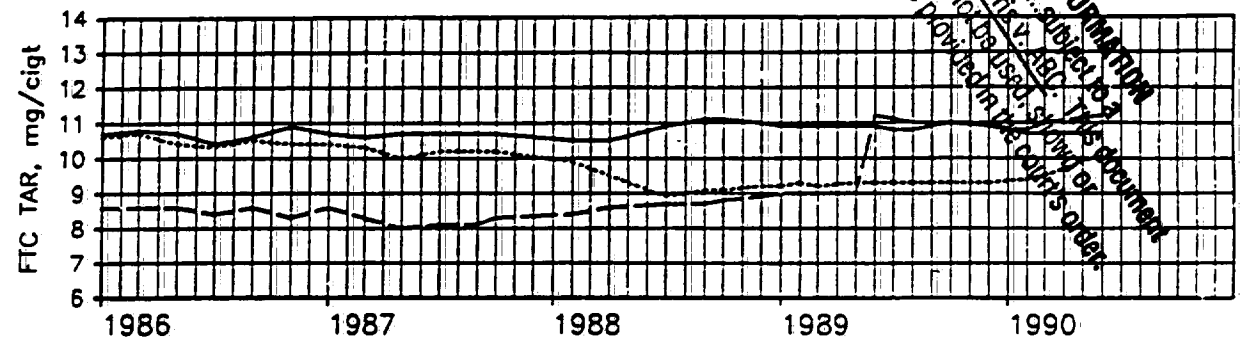


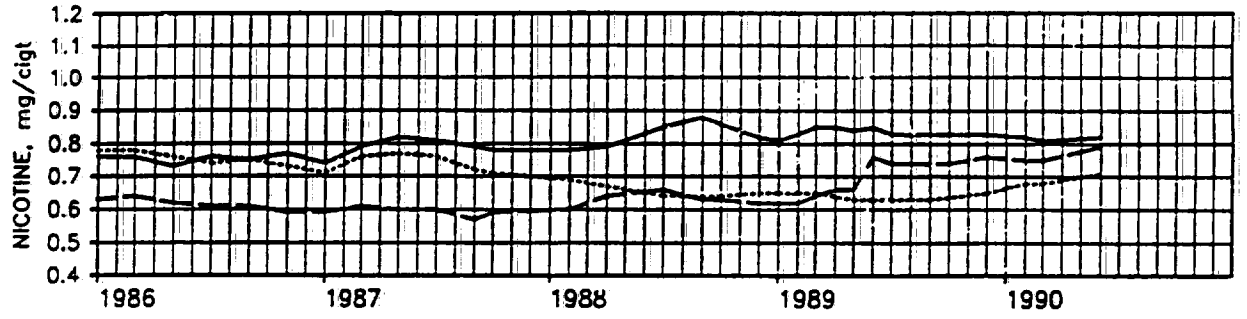
2031420407

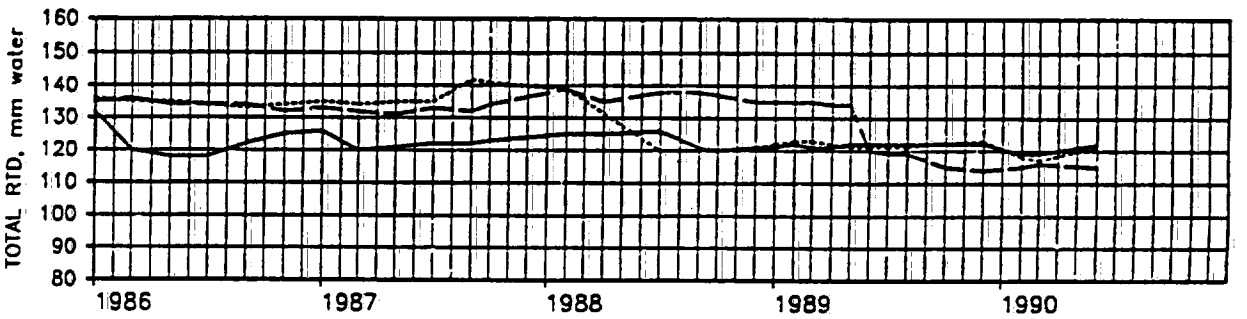
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

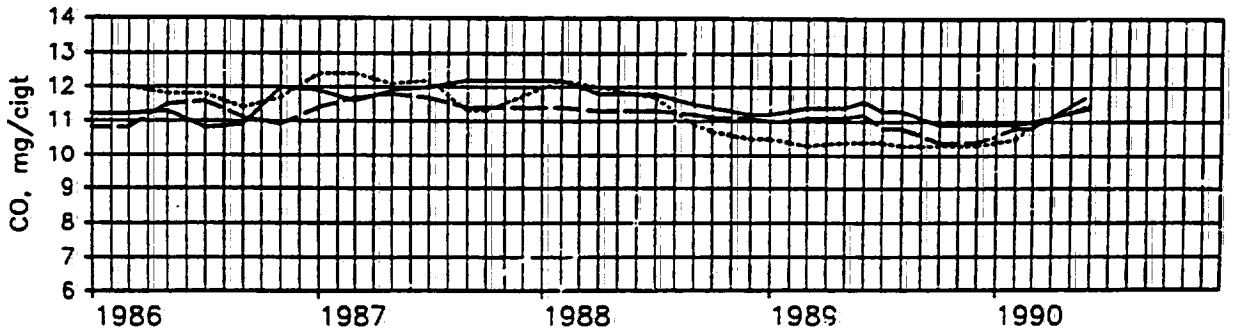
HIGHLY CONFIDENTIAL INFORMATION
produced pursuant to Philip Morris... subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

King Filter Lights: MARLBORO LTS, WINSTON LTS, CAMEL LTS







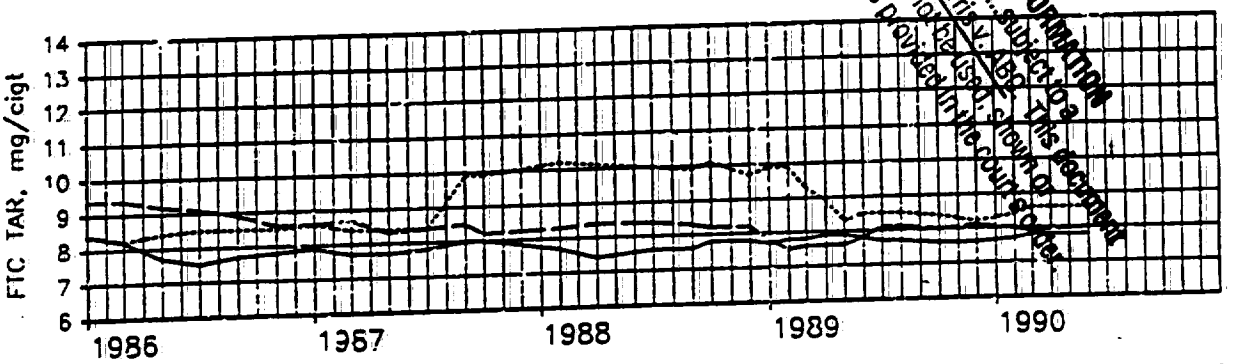


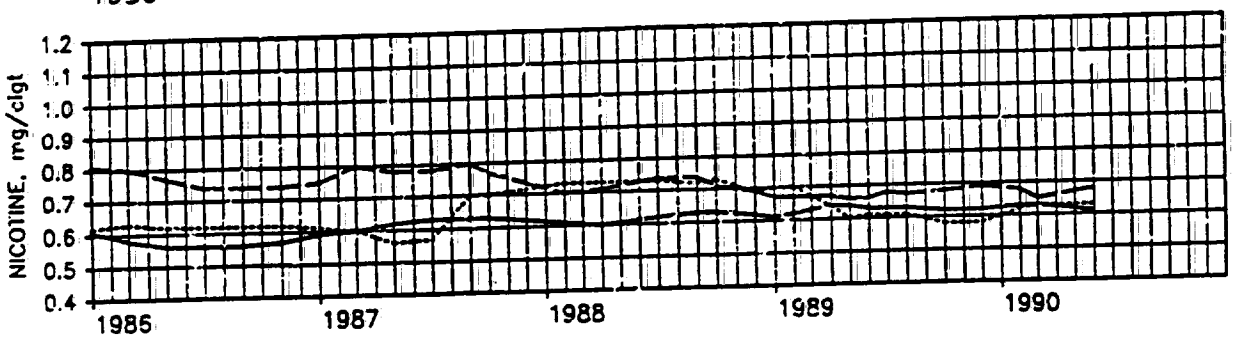
2031420408

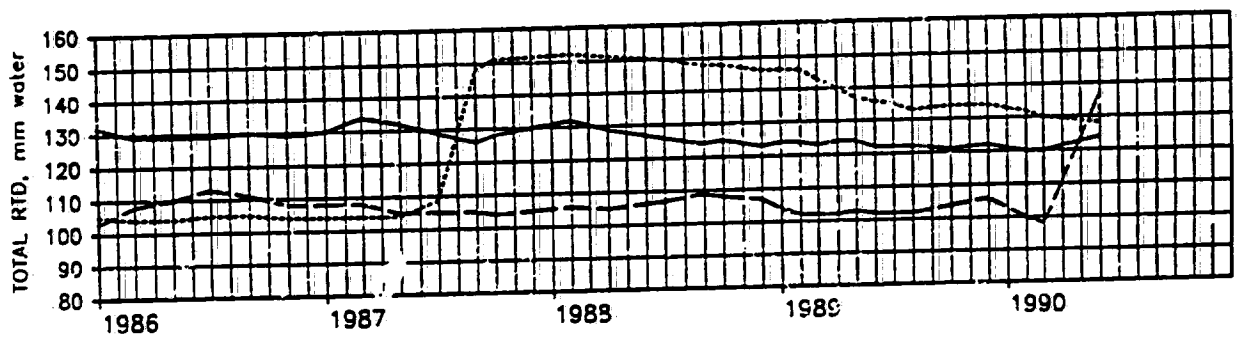
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

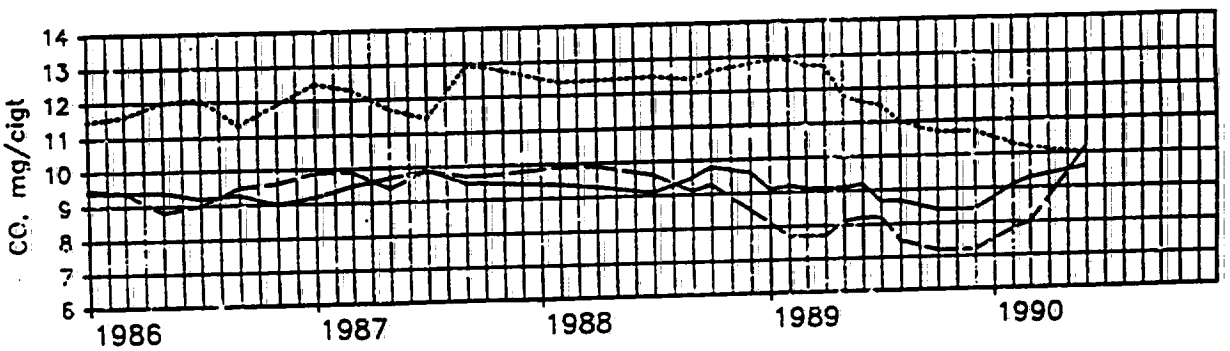
King Filter Low Tar: MERIT, VANTAGE, KENT GOLDEN

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris... subject to a court order... Philip Morris v. ABC... This document and its contents shall not be used... shown or... disclosed except as provided in the court order.







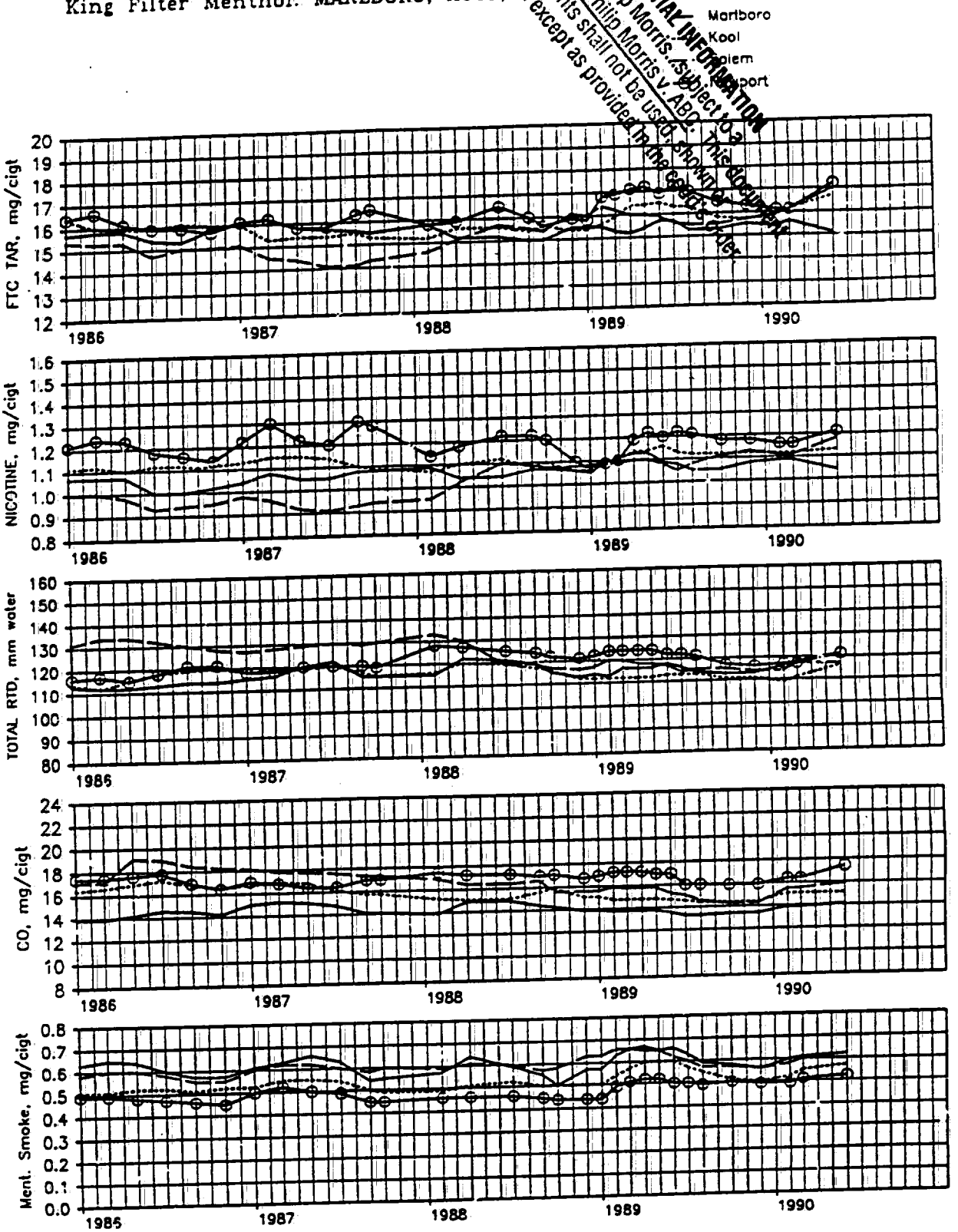


2031420409

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL/ INFORMATION
Produced by Philip Morris subject to a court order in Philip Morris v. ABC. The document and its contents shall not be used, shown or distributed except as provided in the court order.

King Filter Menthol: MARLBORO, KOOL, [illegible] REPORT

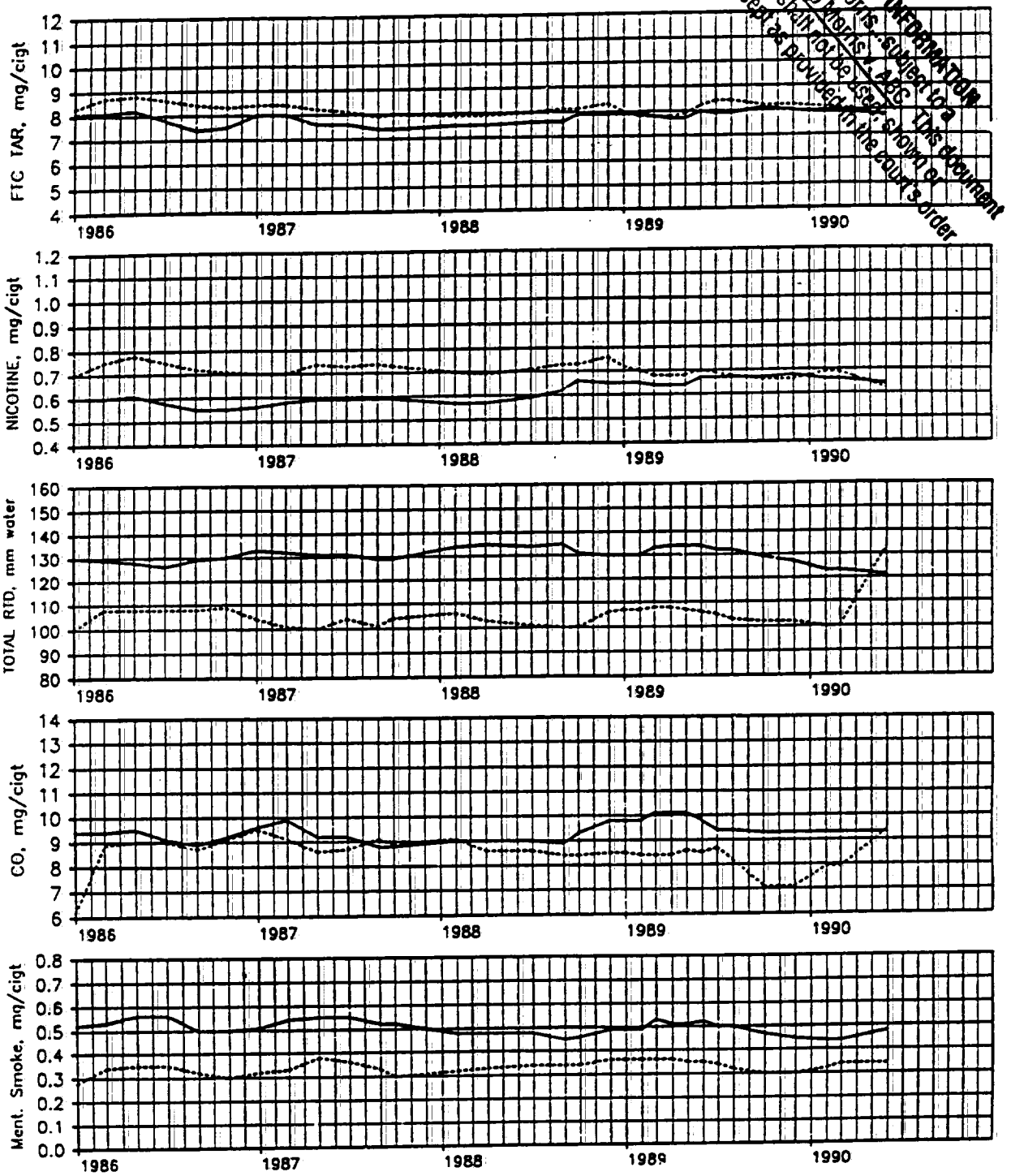


2031420410

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

King Filter Menthol: MERIT, KENT GOLDEN LTS

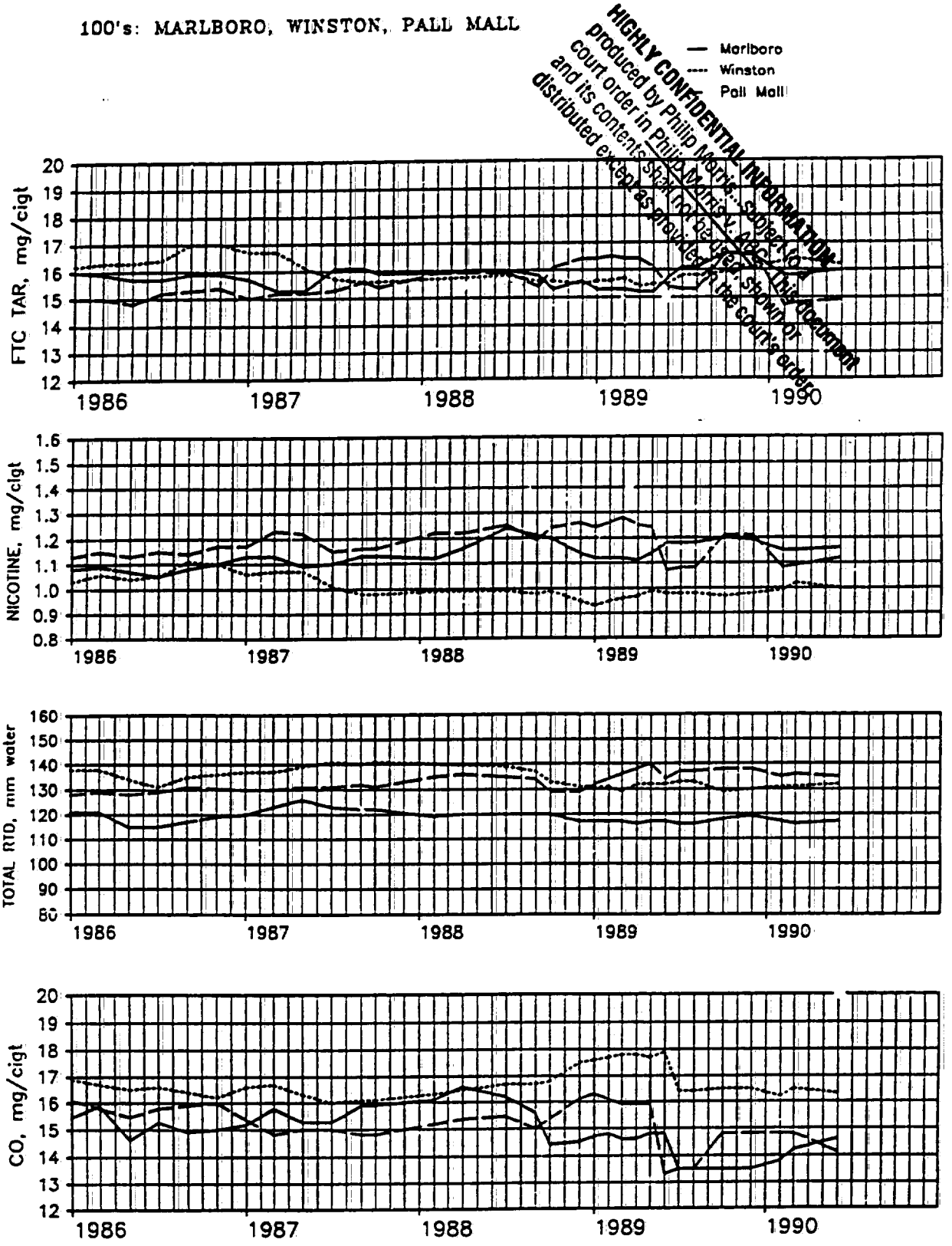
HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a
court order in Philip Morris v. ABC. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order



2031420411

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

100's: MARLBORO, WINSTON, PALL MALL

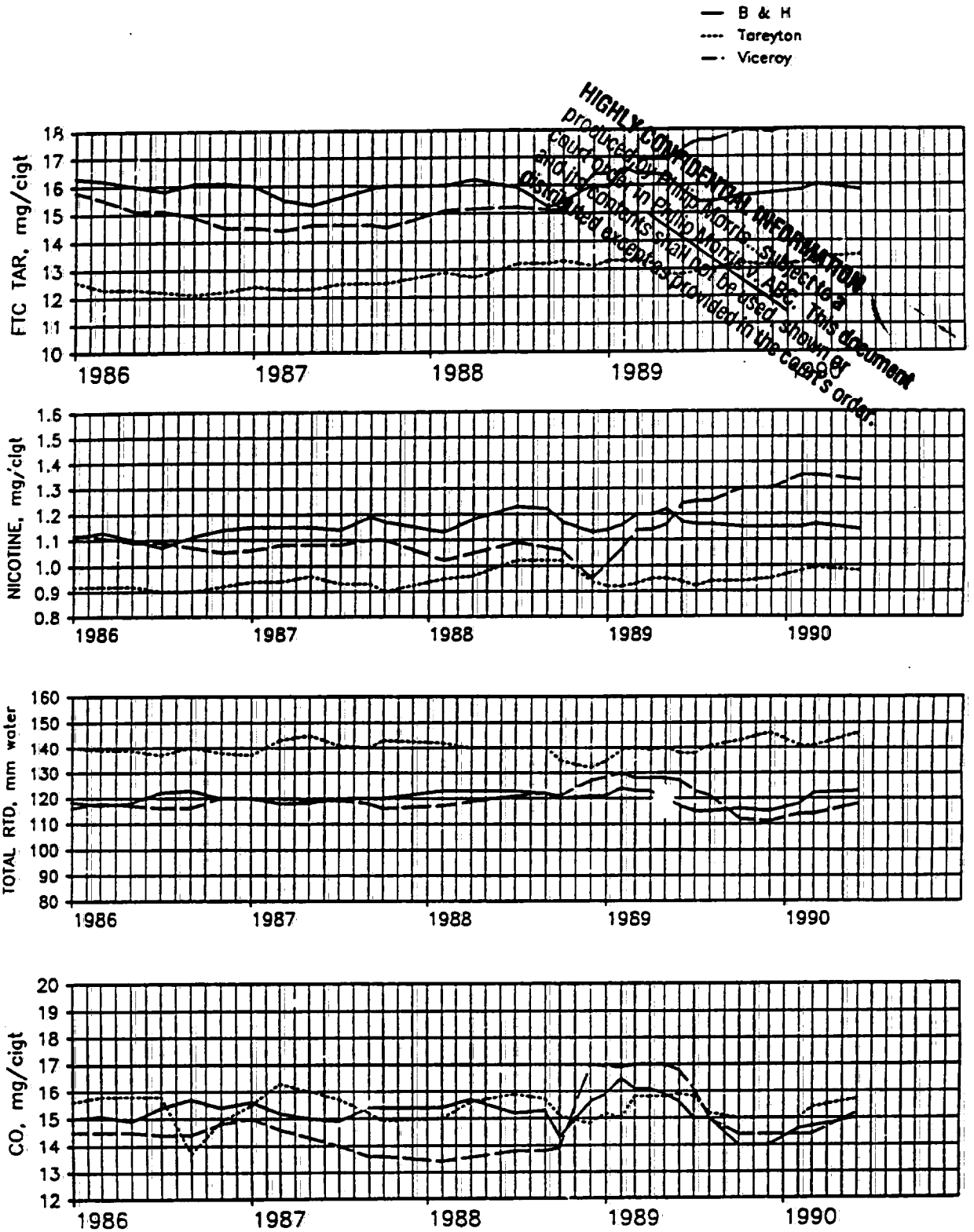


HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to
court order in Philip Morris v. Agg. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.

2031420412

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

100's: BENSON & HEDGES, TAREYTON, VICEROY

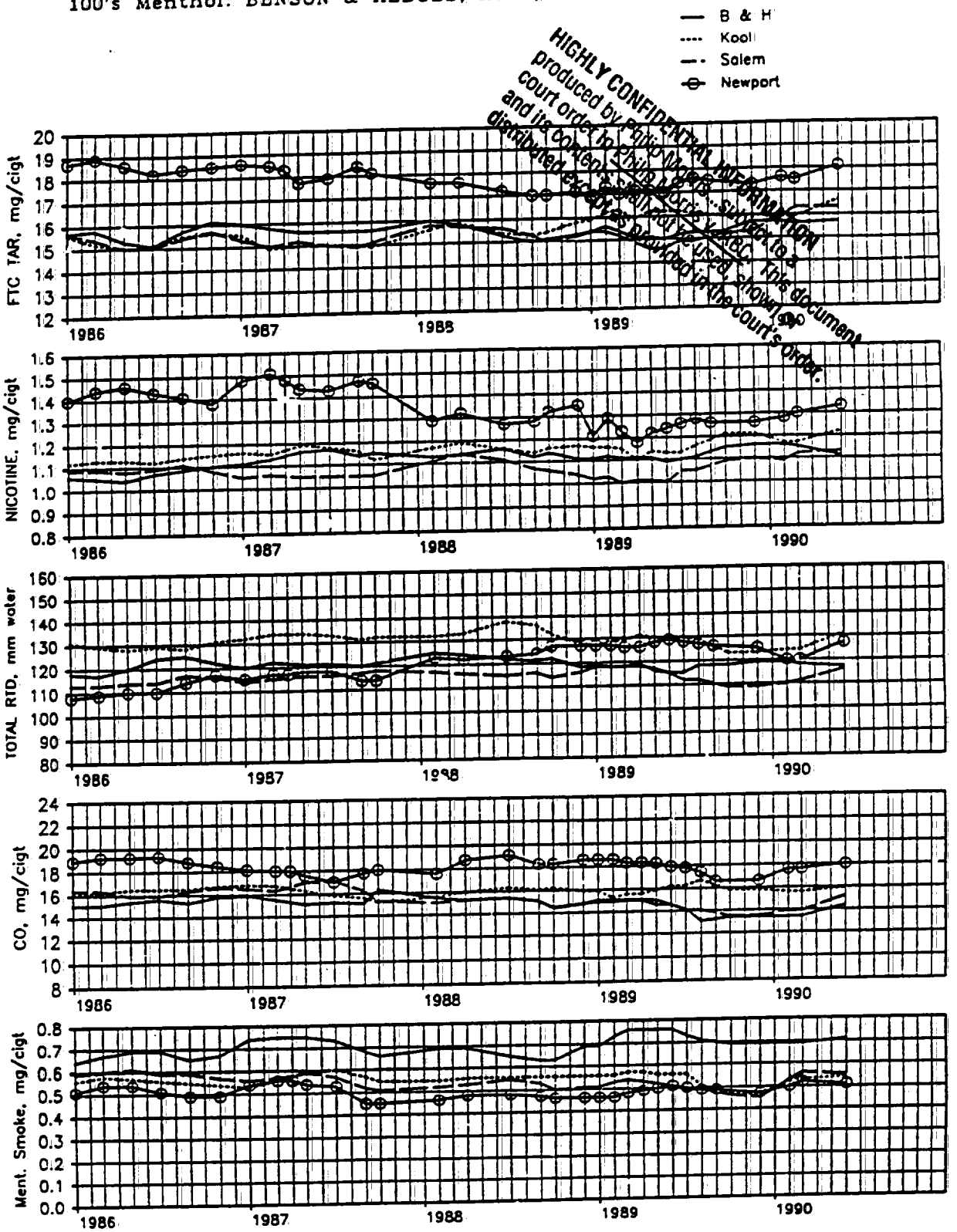


HIGHLY CONFIDENTIAL INFORMATION
produced pursuant to Philip Morris Subpoena
Court Order in Philip Morris, et al. v. ABC. This document
and its contents shall not be used, shown or
disclosed except as provided in the Court's order.

2031420413

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

100's Menthol: BENSON & HEDGES, KOOL, SALEM, NEWPORT

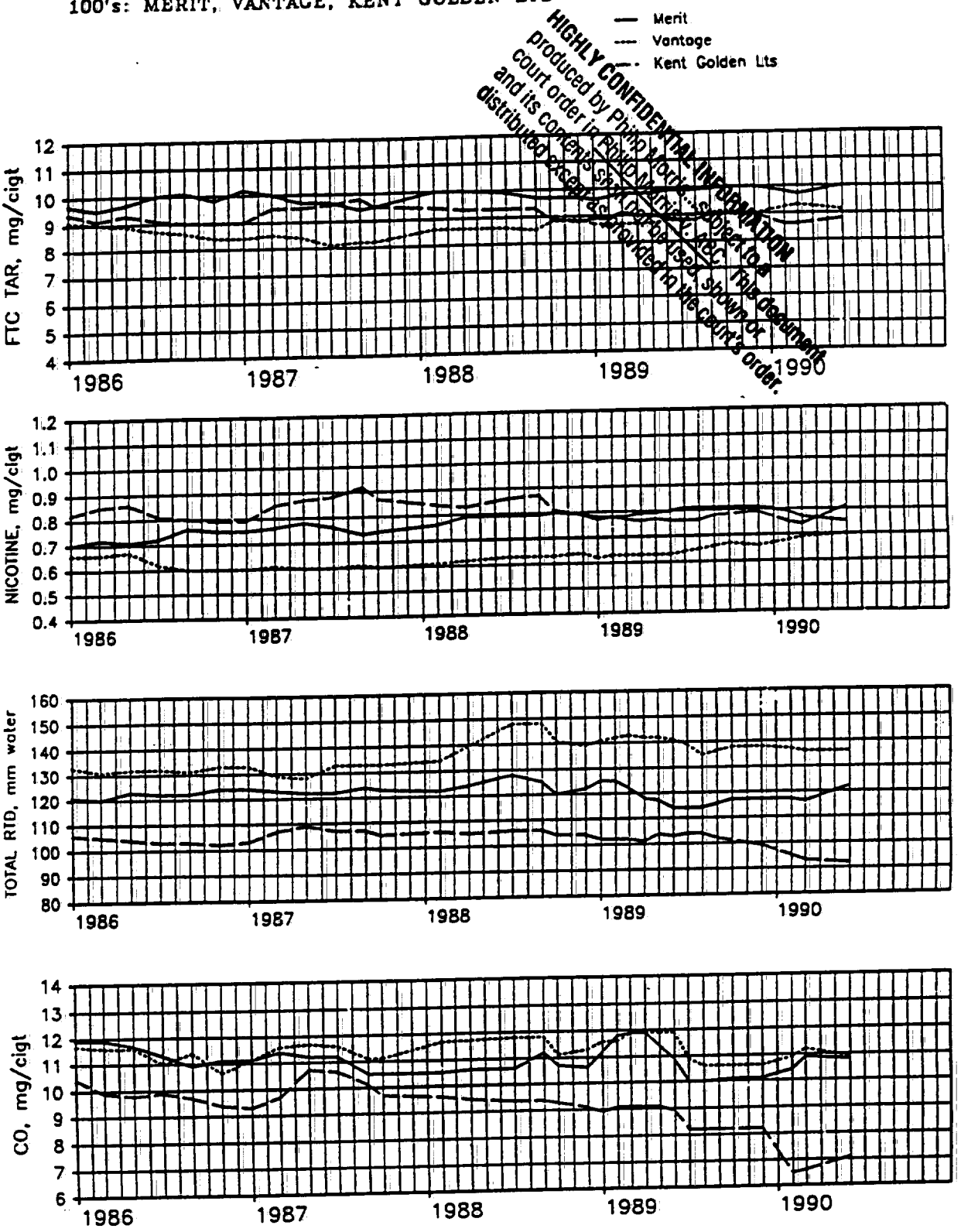


HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a court order by Engle PCC. This document and its contents shall not be used, shown to or disclosed to anyone except as permitted by the court's order.

2031420414

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

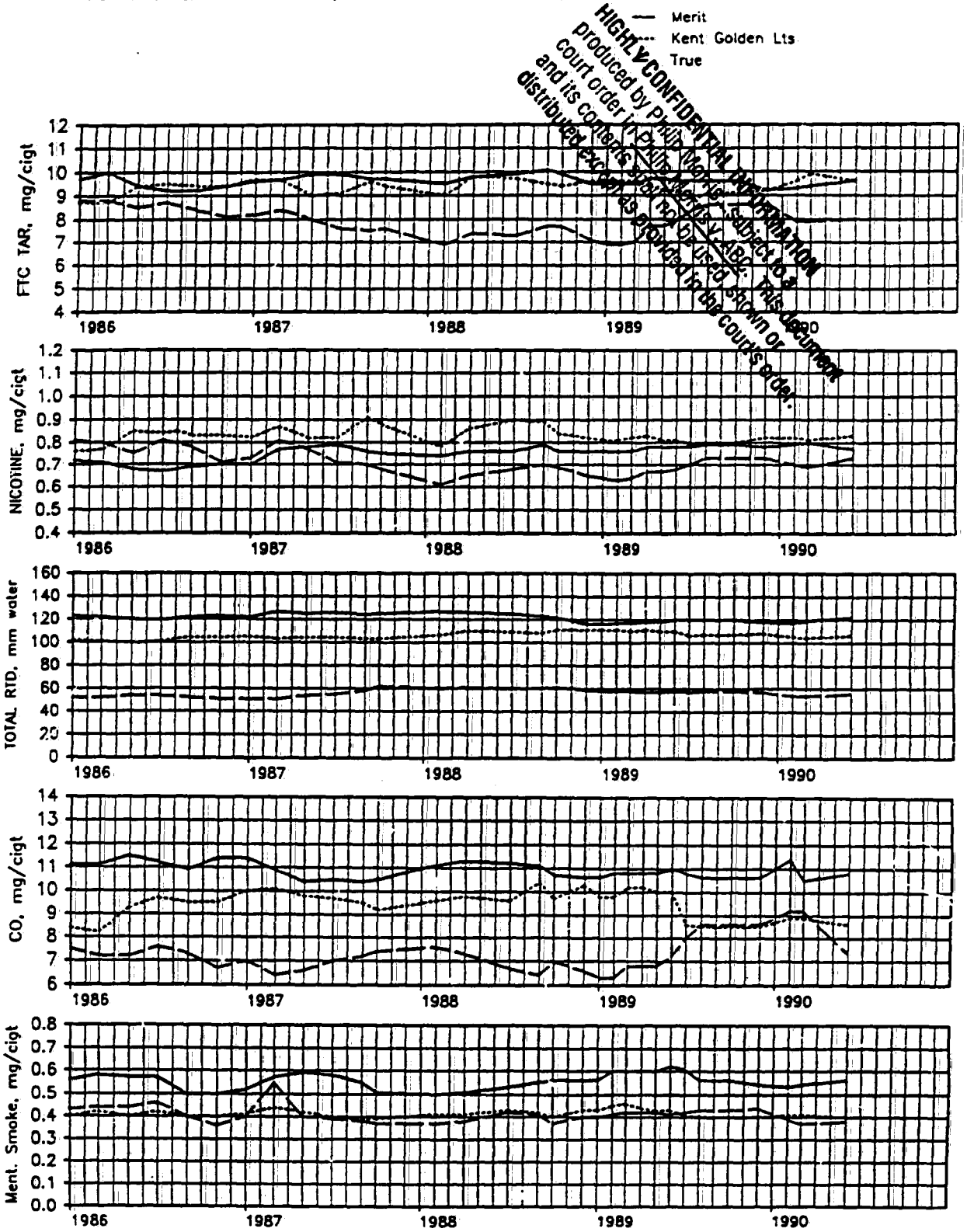
100's: MERIT, VANTAGE, KENT GOLDEN LTS



HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a court order in Rule 11 matrix. Use of this document and its contents restricted as provided in the court's order.
distributed except as provided in the court's order.

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

100's Menthol: MERIT, KENT GOLDEN LTS, TRUE

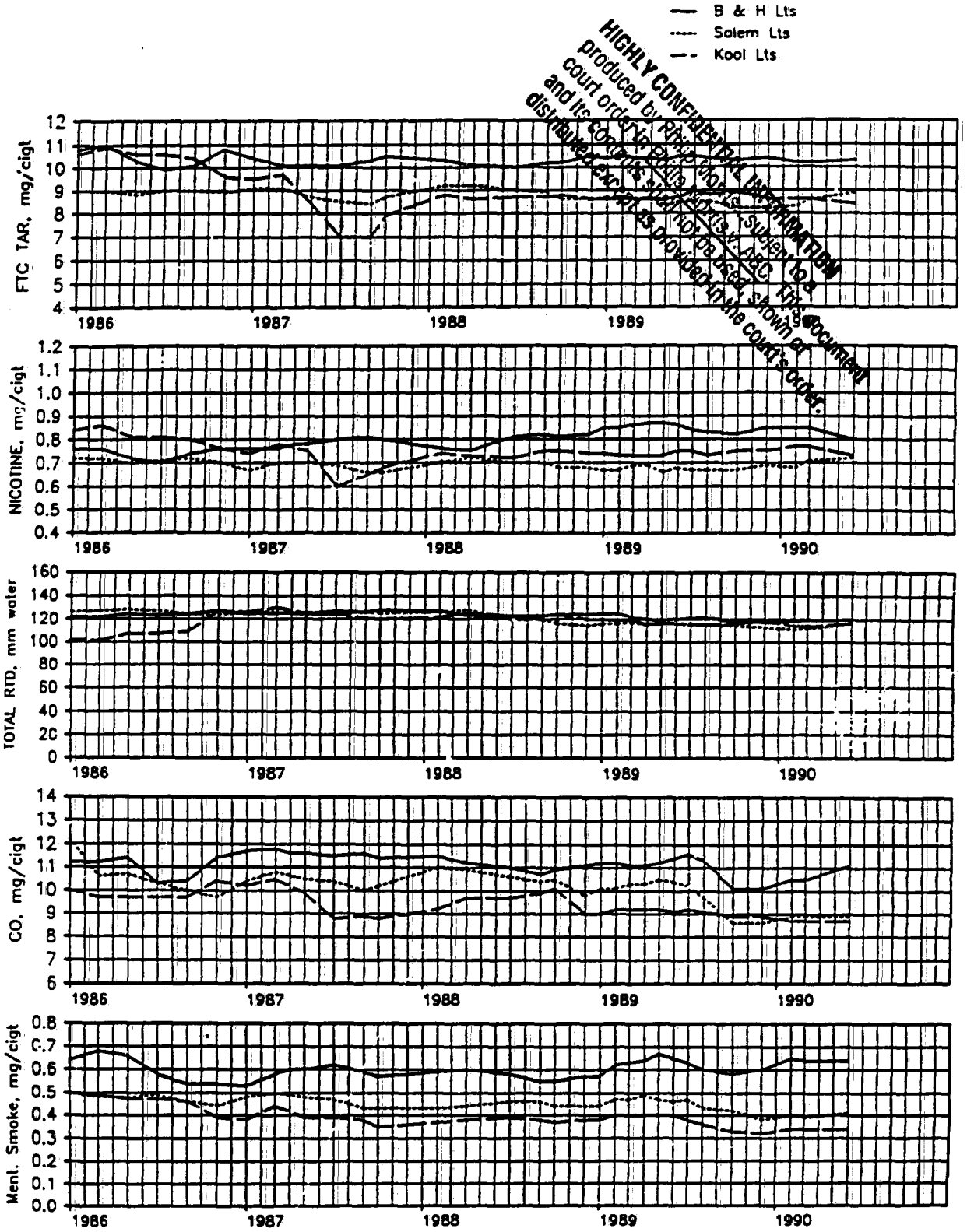


HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

2031420416

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

100's Menthol: BENSON & HEDGES LTS, SALEM LTS, KOOL LTS



HIGHLY CONFIDENTIAL INFORMATION
produced by RJR in response to court order in [illegible] and its contents shall not be used, shown or disclosed except as provided in the court's order.
[illegible] subject to [illegible] Document

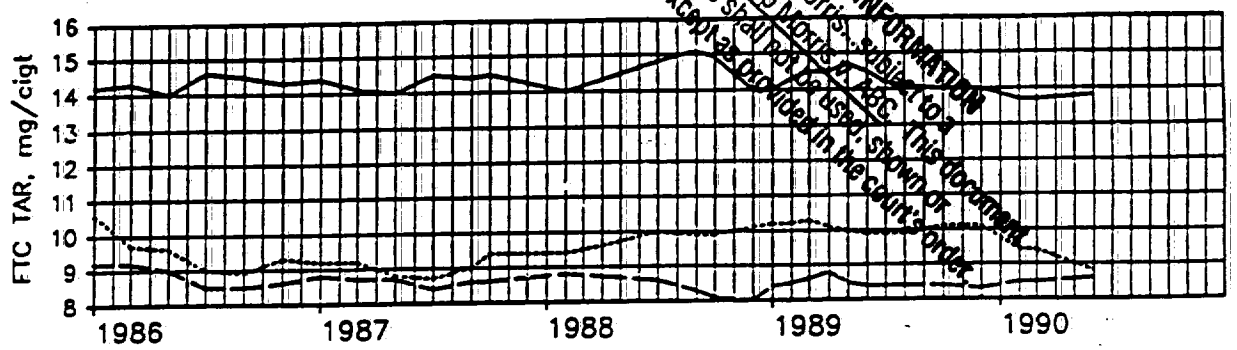
2031420417

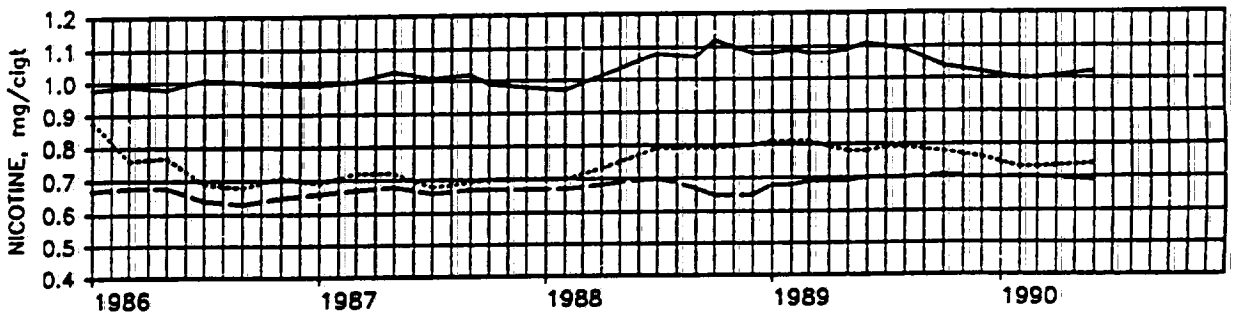
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

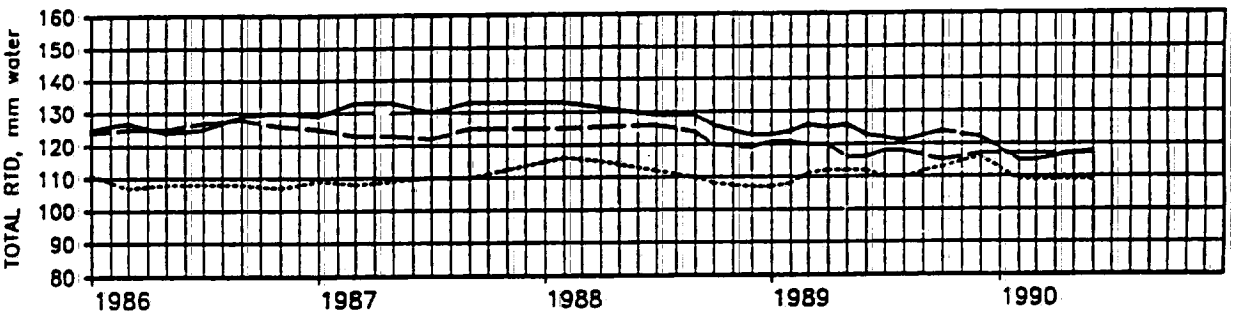
HIGHLY CONFIDENTIAL INFORMATION
Produced by Philip Morris subject to a court order in Philip Morris v. Mozer & R&C. This document and its contents shall not be used, shown or distributed except as provided in the court's order.

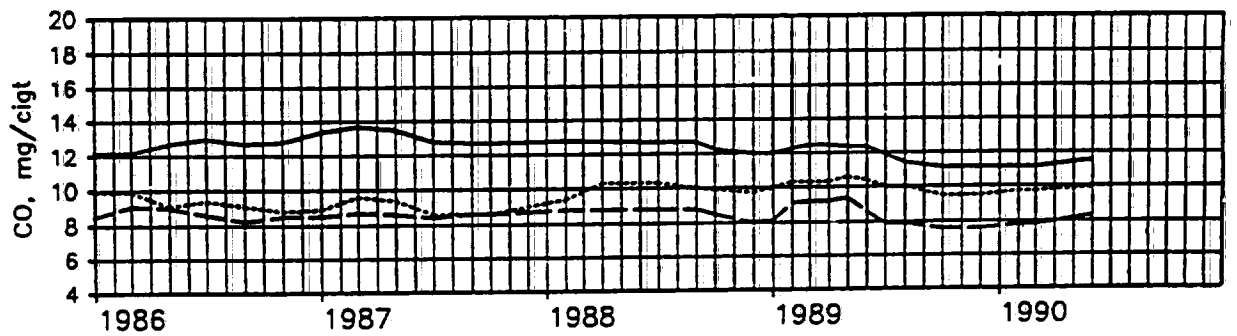
100's Slims: VIRGINIA SLIMS, MORE ... VIRGINIA SLIMS LTS

— Va. Slims
---- More Lts
—·— Va. Slims Lts







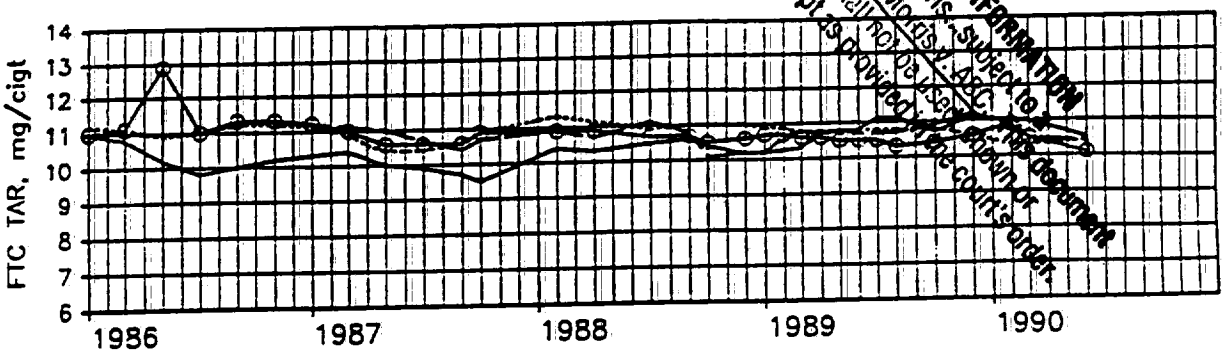


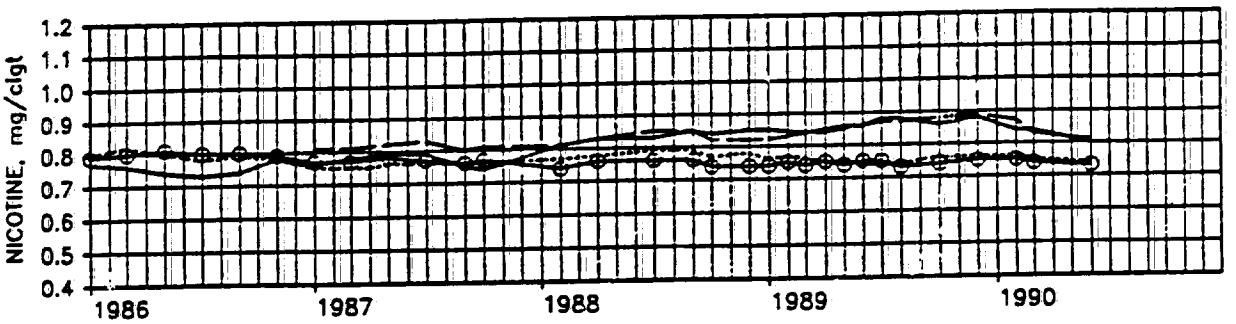
2031420418

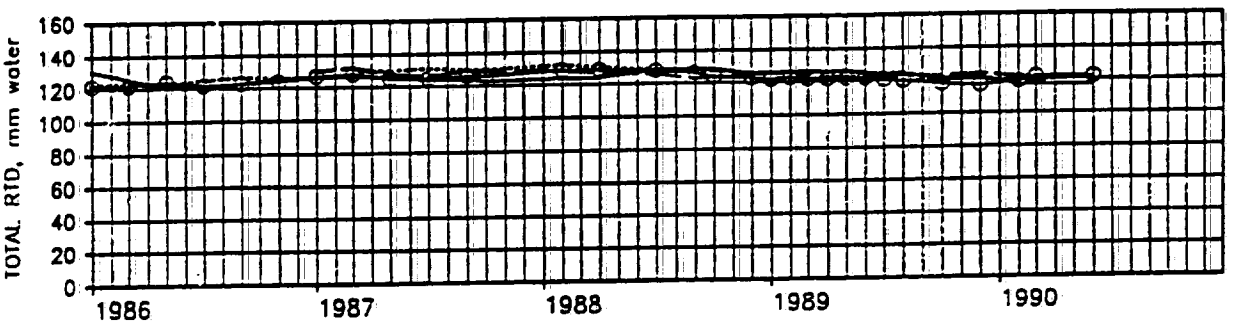
Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

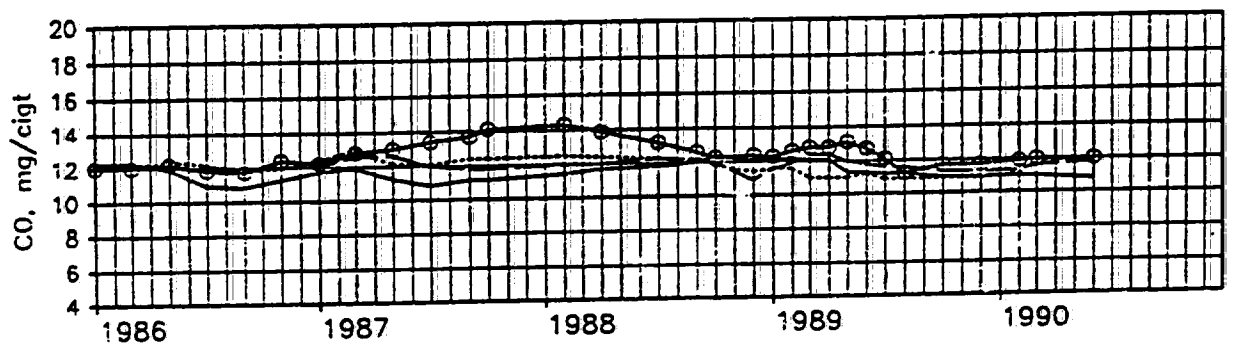
100's: B & H LTS, WINSTON LTS, MARLBORO LTS, CAMEL LTS

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a
court order in Philip Morris, et al. v. ACI, et al.
and its contents shall not be disclosed or
distributed except as provided in the court's order.
This document









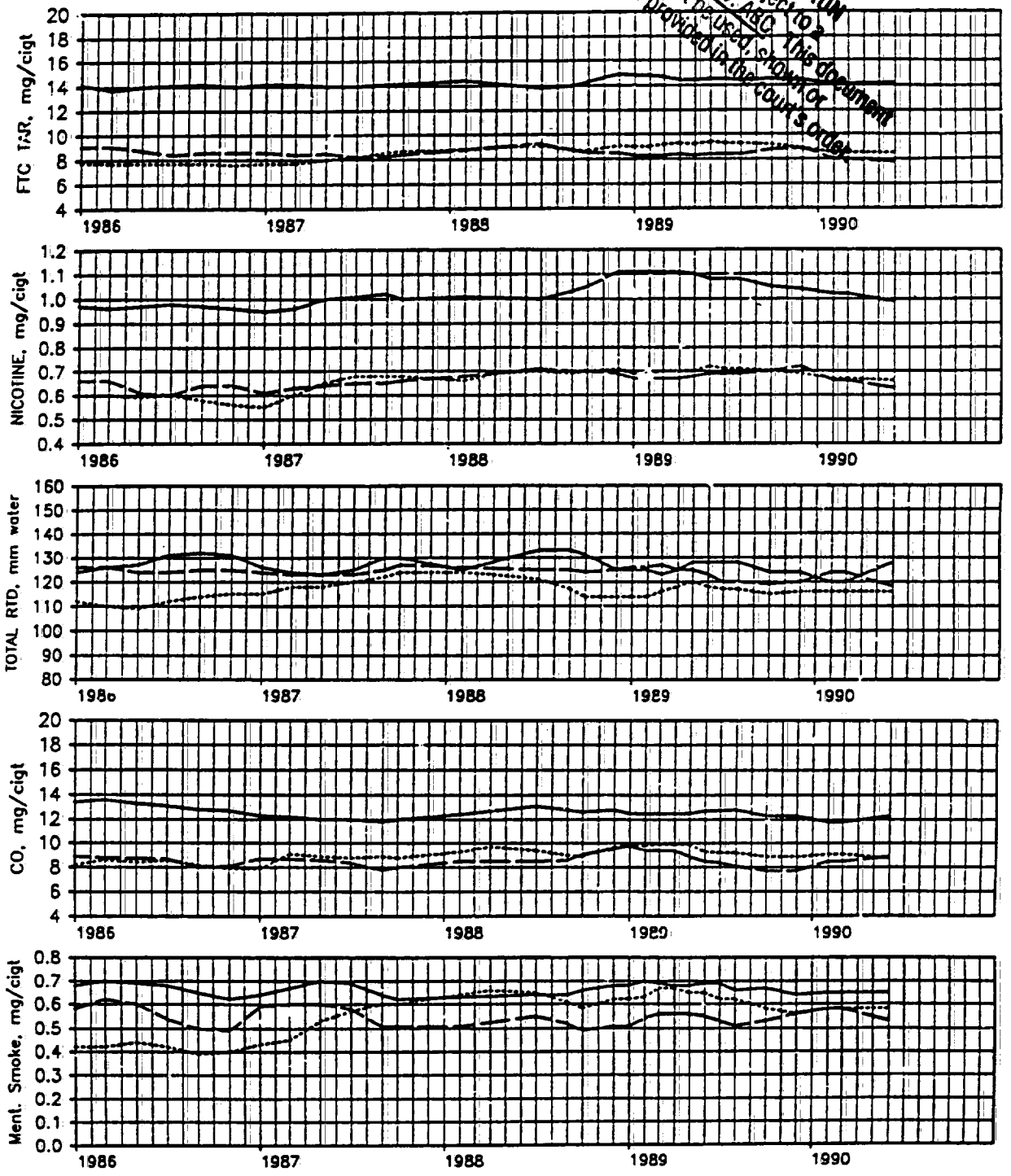
2031420419

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris...Subject to a
court order in Philip Morris v. AEG. This document
and its contents shall not be used, shown or
distributed except as provided in the court's order.

100's Slims Menthol VA SLIMS, SALEM SLIMS, VA SLIMS LTS

Vc. Slims
Salem Slim Lts
Vs Lts

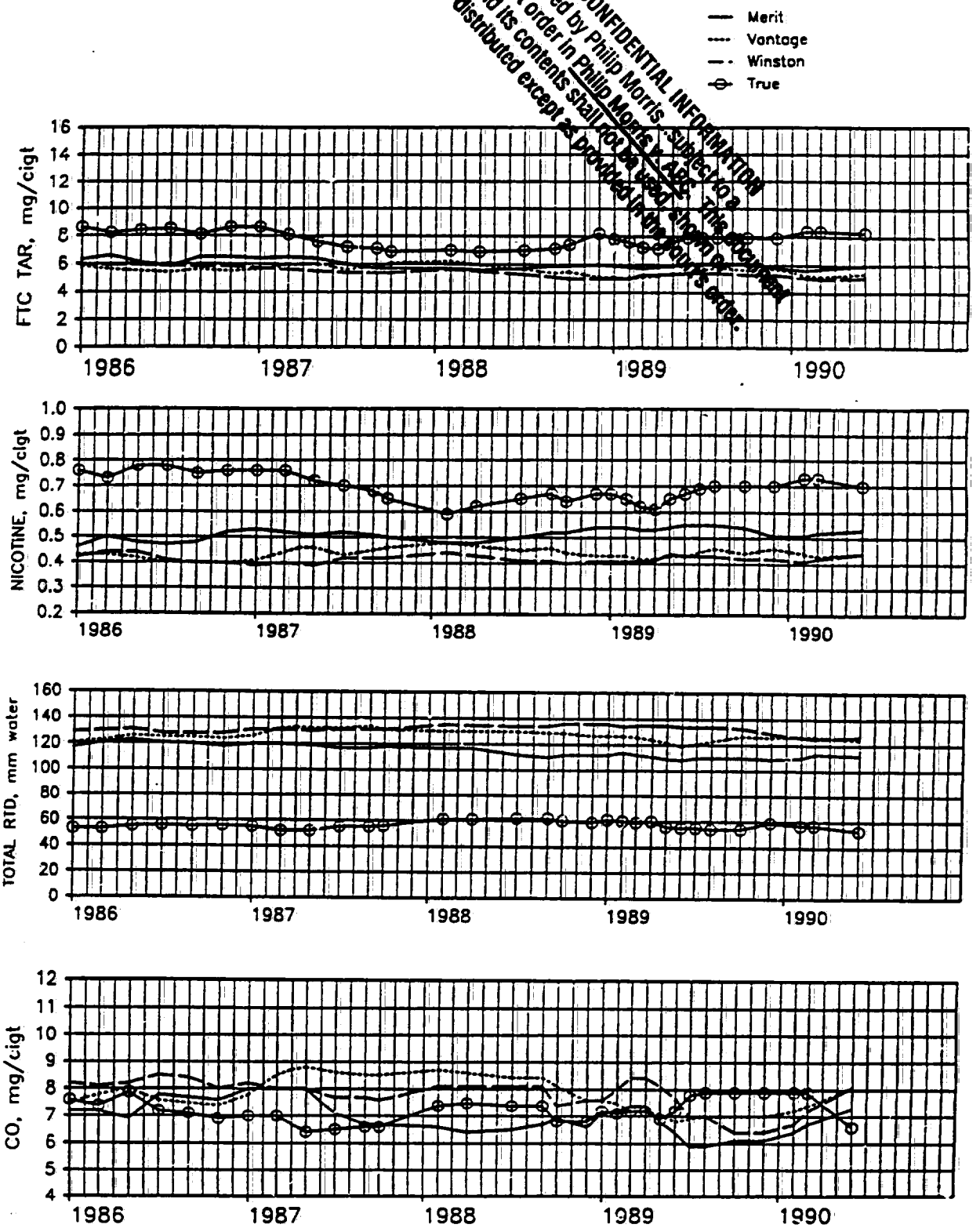


2031420420

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a
court order in Philip Morris v. ABC. The document
and its contents shall not be used except as provided in the court's order.
distributed except as provided in the court's order.

100's Ultra Lights: MERIT, VANTAGE, WINSTON, TRUE

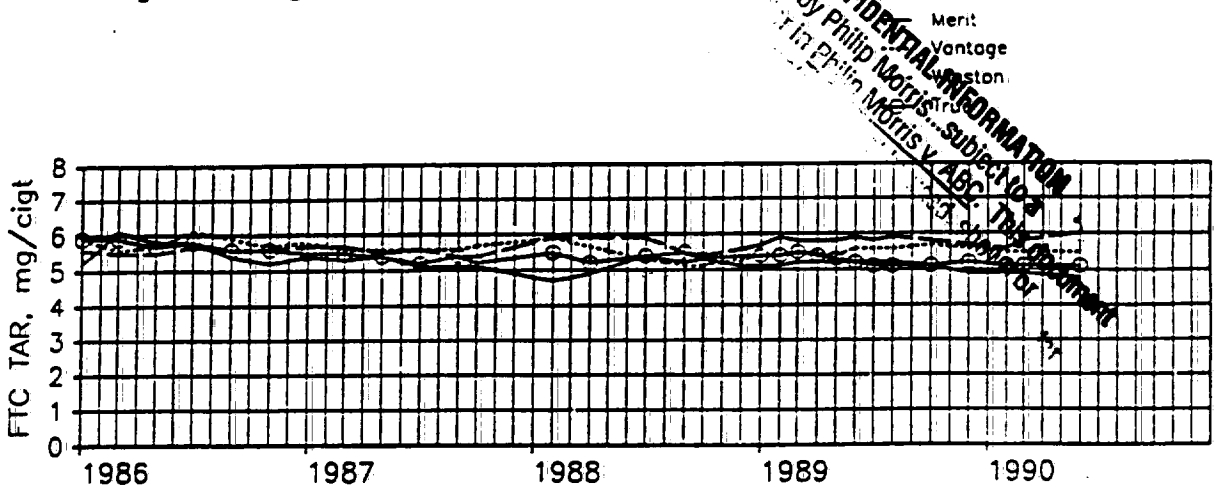


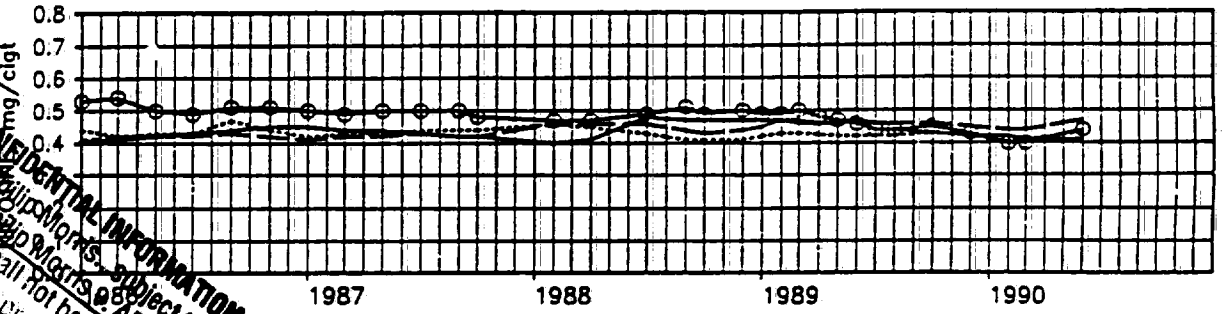
2031420421

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000

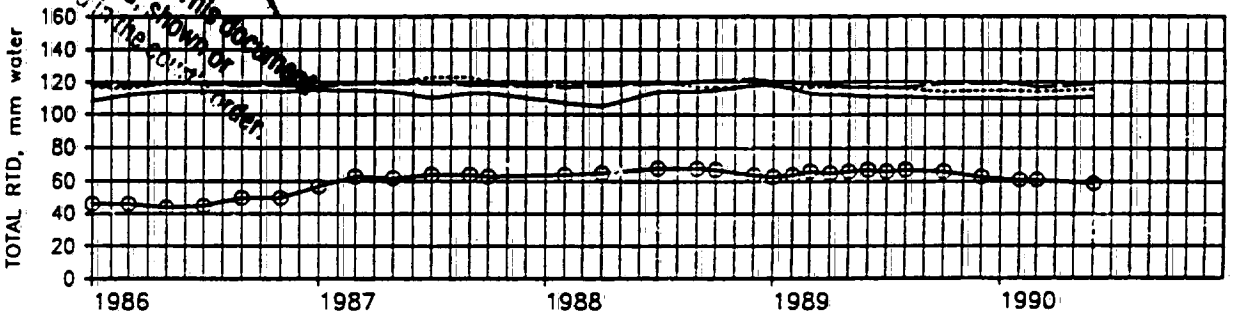
HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court order.

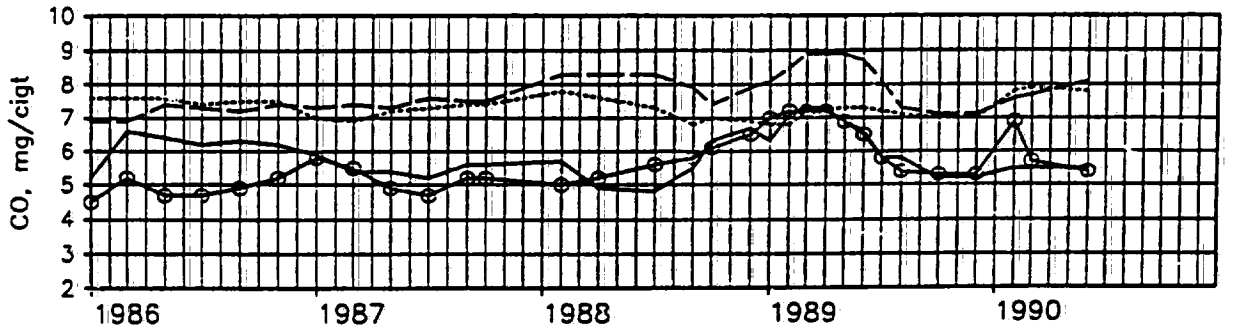
King Ultra Lights: MERIT, VANTAGE, WINSTON





HIGHLY CONFIDENTIAL INFORMATION
produced by Philip Morris subject to a court order in Philip Morris v. ABC. This document and its contents shall not be used, shown or distributed except as provided in the court order.





2031420422

Source: https://www.industrydocuments.ucsf.edu/docs/ysdl0000